

(Use several sheets if necessary)

JUN 17 1999  
 PATENT & TRADEMARK OFFICE  
 JC23

GROUP

Form PTO-1449

U.S. DEPARTMENT OF COMMERCE  
PATENT AND TRADEMARK OFFICE

## LIST OF PRIOR ART CITED BY APPLICANT

IN AN APPLICATION  
(Use several sheets if necessary)Atty. Docket Number  
1012-001

Serial Number:

09/210,485

Applicant(s): Mansky et al.

Filing Date:

12/11/98

Group:

2857  
2858

## U.S. PATENT DOCUMENTS

*EXAMINER TRIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
202	3,266,307	8/16/66	DeWinter	73	190	
202	3,789,662	2/5/74	Zettler, et al.	73	190	
202	4,350,446	9/21/82	Johnson	374	13	
202	4,874,250	10/17/89	Gonner	374	43	
202	5,224,775	7/6/93	Reading, et al.	374	11	
202	5,228,114	7/13/93	Suzuki	392	416	
202	5,335,993	8/9/94	Marcus, et al.	374	11	
202	5,346,306	9/13/94	Reading, et al.	374	10	
202	5,439,291	8/8/95	Reading	374	11	
202	5,464,966	11/7/95	Gaiten, et al.	219	544	
202	5,474,385	12/12/95	Reading	374	11	

## FOREIGN PATENT DOCUMENTS

Document Number	Date	Country	CLASS	SUBCLASS	TRANSLATION YES NO
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## OTHER DOCUMENTS

(Including Author, Title, Date, Pertinent Pages, Etc.)

Sullivan, P.F. and G. Seidel "Steady-state, AC-temperature calorimetry" Physical Review  
Vol. 73 no.3; September 15, 1968; p.679-685.

EXAMINER

241 Wabman

DATE CONSIDERED:

11-25-01

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP Section 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Patent and Trademark Office - U.S. DEPARTMENT OF COMMERCE

Form PTO-1449 U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		Atty. Docket Number 1012-001		Serial Number: 09/210,485			
<b>LIST OF PRIOR ART CITED BY APPLICANT</b> <b>IN AN APPLICATION</b> <i>(Use several sheets if necessary)</i>		Applicant(s): Mansky et al.					
		Filing Date: 12/11/98		Group: <u>2857</u> <del>2858</del>			
<b>U.S. PATENT DOCUMENTS</b>							
*EXAMINER TRIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
<i>JSW</i>		5,525,300	6/11/96	Danssaert, et al.	422	99	
<i>JSW</i>		5,599,104	2/4/97	Nakamura, et al.	374	12	
<i>JSW</i>		5,601,141	2/11/97	Gordon, et al.	165	263	
<i>JSW</i>		5,779,362	7/14/98	Lightfoot	374	33	
<i>JSW</i>		5,779,981	7/14/98	Danssaert, et al.	422	99	
<i>JSW</i>		5,788,373	8/4/98	Huetter, et al.	374	10	
<i>JSW</i>		5,806,979	9/15/98	Gschneidner, et al.			
<i>JSW</i>		5,813,763	9/29/98	Plotnikov, et al.	374	11	
<i>JSW</i>		5,821,596	10/13/98	Miu, et al.	257	419	
<i>JSW</i>		5,876,118	3/2/99	Vogel	374	11	
<i>JSW</i>		5,923,421	7/13/99	Rajic, et al.	356	328	
<i>JSW</i>		5,939,312	8/17/99	Baier, et al.	435	287.2	
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<b>OTHER DOCUMENTS</b> <i>(Including Author, Title, Date, Pertinent Pages, Etc.)</i>							
EXAMINER <i>Henk W. L. ...</i>				DATE CONSIDERED: <i>11-25-01</i>			
EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP Section 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.							

**SERIAL NO.**  
09/210,485

### Information Disclosure Statement by Applicant-

(Use several sheets if necessary)

**APPLICANT**  
Mansky et al.

**FILING DATE**  
December 11, 1998

GROUP *2857*

## U.S. PATENT DOCUMENTS

Exmr Initial	Document Number	Date	Name	Class	Sub Class	Filing Date
<i>Jan</i>	4,423,371	12/27/83	Senturia et al.	324	663	
<i>Jan</i>	4,448,943	5/15/84	Golba et al.	526	59	
<i>Jan</i>	4,571,543	2/18/86	Raymond et al.	324	425	
<i>Jan</i>	4,675,674	6/23/87	Hope	340	870.13	
<i>Jan</i>	4,710,550	12/1/87	Kranbuehl	526	60	
<i>Jan</i>	4,891,591	1/2/90	Johnston et al.	324	234	
<i>Jan</i>	5,063,081	11/5/91	Cozzette et al.	435	4	
<i>Jan</i>	5,095,278	3/10/92	Hendrick	324	687	
<i>Jan</i>	5,164,319	11/17/92	Hafeman et al.	435	287.1	
<i>Jan</i>	5,345,213	9/6/94	Semancik et al.	338	34	
<i>Jan</i>	5,356,756	10/18/94	Cavicchi et al.	430	315	
<i>Jan</i>	5,491,097	2/13/96	Ribi et al.	436	518	

## FOREIGN PATENT DOCUMENTS

[illegible]

## OTHER DOCUMENTS

(Including Author, Title, Date, Pertinent Pages, Etc.)

100		<p>"Thermodynamic Measurements of Magnetic Ordering in Antiferromagnetic Superlattices," E.N. Abarra, K. Takano, F. Hellman, and A.E. Berkowitz, <u>Physical Review Letters</u>, Vol. 77, No. 16, October 14, 1996, pp. 3451-3454.</p>
100		<p>"The Anatomy of a Microcalorimeter," Kim Allen,  <a href="http://physics.ucsd.edu/~kallen/Microcal/calorimeter.html">http://physics.ucsd.edu/~kallen/Microcal/calorimeter.html</a>, 14 pages. (1/20/97)</p>
100		<p>"Heat Capacity Measurements on Small Samples at Low Temperatures," R. Bachmann, F.J. DiSalvo, J. T.H. Geballe, R.L. Greene, R.E. Howard, C.N. King, H.C. Kirsch, K.N. Lee, R.E. Schwall, H.U. Thomas, and R.B. Zubeck, <u>The Review of Scientific Instruments</u>, Vol. 43, No. 2, February 1972, pp. 205-214.</p>
Examiner <i>[Signature]</i>		Date Considered <i>11-25-01</i>

**Examiner:** Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

**SERIAL NO.**  
09/210,485

## Information Disclosure Statement by Applicant

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**APPLICANT**  
Mansky

**FILING DATE**  
Herewith

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## U.S. PATENT DOCUMENTS

Exmr Initial	Document Number	Date	Name	Class	Sub Class	Filing Date
12	5,532,128	7/2/96	Eggers et al.	435	6	
12	5,533,393	7/9/96	Bonne et al.	73	335.02	
12	5,534,111	7/9/96	Hocker et al.	216	15	
12	5,557,972	9/24/96	Jacobs et al.	73	256	
12	5,597,957	1/28/97	Schieferdecker et al.	73	255	
12	5,602,393	2/11/97	Gerard	250	338.4	
12	5,622,633	4/22/97	Ohtsuka et al.	438	53	
12	5,632,957	5/27/97	Heller et al.	422	68.1	
12	5,634,718	6/3/97	Martinis et al.	374	32	
12	5,635,845	6/3/97	Strong et al.	324	693	
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12	5,641,634	6/24/97	Mandecki	435	6	

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## OTHER DOCUMENTS

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✓			"Micromechanical Thermogravimetry," R. Berger, H.P. Lang, Ch. Gerber, J.K. Gimzewski, J.H. Fabian, L. Scandella, E. Meyer, H.J. Guntherodt, <u>Chemical Physics Letters</u> , Vol. 294, September 18, 1998, pp. 363-369.
✓			"An Ultrahigh Vacuum Single Crystal Adsorption Microcalorimeter," C.E. Borroni-Bird and D.A. King, <u>Rev. Sci. Instrum.</u> , Vol. 62, No. 9, September 1991, pp. 2177-2185.
✓			"Relaxation Phenomena in Dense, Glassy Membranes Prepared from a Polymer Solution, Monitored by Changes in Dielectric Properties," R.H.B. Bouma, Th. van den Boomgaard, C.A. Smolders, H. Strathmann, P.F. Mijnlieff, <u>Journal of Membrane Science</u> , Vol. 113, 1996, pp. 205-221. (No month)

**Examiner**

Date Considered

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FORM PTO-1449	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DOCKET NO. 65304-039	SERIAL NO. 09/210,485
Information Disclosure Statement by Applicant (Use several sheets if necessary)		APPLICANT Mansky	
		FILING DATE Herewith	GROUP 20-7

## U.S. PATENT DOCUMENTS

Exmr Initial	Document Number	Date	Name	Class	Sub Class	Filing Date
JW	5,653,939	8/5/97	Hollis et al.	422	00	
JW	5,659,127	8/19/97	Shie et al.	23	31.05	
JW	5,670,322	9/23/97	Eggers et al.	435	6	
JW	5,739,686	4/14/98	Naughton et al.	329	259	
JW	5,759,493	6/2/98	Raisanen	422	88	
JW	5,783,805	7/21/98	Katzmann	219	494	

## FOREIGN PATENT DOCUMENTS

Exmr Initial	Document Number	Date	Country	Class	Sub Class	Translation YES NO

## OTHER DOCUMENTS

(Including Author, Title, Date, Pertinent Pages, Etc.)

JW		"A Class of Cobalt Oxide Magnetoresistance Materials Discovered with Combinatorial Synthesis," Gabriel Briceno, Hauey Chang, Xiaodong Sun, Peter G. Schultz, X.D. Xiang, <u>Science</u> , Vol. 270, October 13, 1995, pp. 273-275.
JW		"Thermal Conductivity Measurement from 30 to 750 K: the 3 $\omega$ Method," David G. Cahill, <u>Rev. Sci. Instrum.</u> , Vol. 61, No. 2, February 1990, pp. 802-808.
JW		"Thermal Conductivity of a-Si:H Thin Films," David G. Cahill, M. Katiyar, and J.R. Abelson, <u>The American Physical Society</u> , Vol. 50, No. 9, September 1, 1994, pp. 6077-6081.
Examiner	<i>John W. Mansky</i>	Date Considered <i>11-15-1999</i>

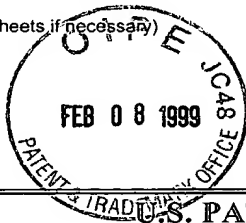
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09/210,485

## Information Disclosure Statement by Applicant

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**APPLICANT**  
Mansky

**FILING DATE**  
Herewith

**GROUP**

2857

## U.S. PATENT DOCUMENTS

[illegible]

## FOREIGN PATENT DOCUMENTS

[illegible]

## OTHER DOCUMENTS

(Including Author, Title, Date, Pertinent Pages, Etc.)

For			"Pulsed Desorption Kinetics Using Micromachined Microhotplate Arrays," Richard E. Cavicchi, Gregory E. Poirier, John S. Suehle, Michael Gaitan, Steve Semancik, and Donald R. F. Burgess, <u>J. Vac. Sci. Technol.</u> , Vol. 12, No. 4, Jul/Aug 1994, pp. 2549-2553.
For			"A Combinational Chemistry Approach to Oxidation Catalyst Discovery and Optimization," Peigun Cong, Dan Giaquinta, Shenheng Guan, Eric McFarland, Kyle Self, Howard Turner and W. Henry Weinburg, <u>Process Miniaturization: 2<sup>nd</sup> International Conference on Microreaction Technology Brochure</u> , pp. 118-123.
For			"Thin Film Microcalorimeter for Heat Capacity Measurements from 1.5 to 800 K," D.W. Denlinger, E.N. Abarra, Kimberly Allen, P.W. Rooney, M.T. Messer, S.K. Watson, and F. Hellman, <u>Rev. Sci. Instrum.</u> , Vol. 65, No. 4, April 1994, pp. 946-958.
Examiner	K. L. Williams		Date Considered 1/10/25

**Examiner:** Initial if citation considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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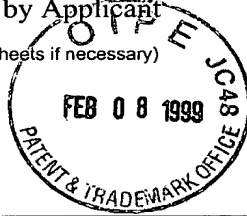
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09/210,485

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09/210,485

## Information Disclosure Statement by Applicant

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**APPLICANT**  
Mansky

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2857

## U.S. PATENT DOCUMENTS

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## FOREIGN PATENT DOCUMENTS

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## OTHER DOCUMENTS

(Including Author, Title, Date, Pertinent Pages, Etc.)

✓		Abstract, "Microcalorimetric Study of the Acidic Character of Modified Metal Oxide Surfaces. Influence of the Loading Amount on Alumina, Magnesia, and Silica," A. Gervasini, <u>Langmuir</u> , Vol. 12, 1996, pp. 5356-5364. <i>1 page. CN 01-18</i>
✓		"Modulated-bath Calorimetry," J.E. Graebner, <u>Rev. Sci. Instrum.</u> , Vol. 60, No. 6, June 1989, pp. 1123-1128.
✓		"Specific Heat of Granular Aluminum Films," R.L. Greene, C.N. King, and R.B. Zubeck, <u>Physical Review B</u> , Vol. 6, No. 9, November 1, 1972, pp. 3297-3304.
Examiner	<i>K. Williams</i>	Date Considered <i>11-25-01</i>

**Examiner:** Initial if citation considered, whether or not citation is in conformance with MPER 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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**SERIAL NO.**  
09/210,485

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22/		"Determination of Complex Shear Modulus with Thickness Shear Mode Resonators," Ralph Lucklum, Carsten Behling, Richard W. Cernosek, and Stephen J. Martin, <u>IOP Publishing</u> , September 1996, pp. 346-356.
22/		"Materials Test Equipment - Materials Measurement Systems," <u>1998 Hewlett-Packard Test and Measurement Catalog</u> , pp. 349-351. (NOM or 12)
22/		" $\mu$ TA 2990 Micro-Thermal Analyzer - Characterizing the Nano-World," <u>TA Instruments Thermal Analysis &amp; Rheology Brochure</u> , 8 pages. (Module)
Examiner <i>Harold W. Williams</i>		Date Considered <i>11-25-03</i>

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GROUP 2100









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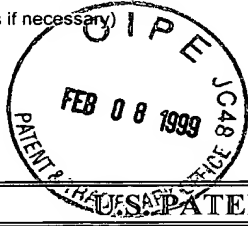
WV			"In-Plane Permittivity of Spin-Cast Polymer Films," Shari A. Weinberg and Sue Ann Bidstrup-Allen, <u>Mat. Res. Soc. Symp. Proc.</u> , Vol. 411, 1996, pp. 229-234. <i>(Nov 22, 96)</i>
WV			"Specific Heat Measurements by Non-Contact Calorimetry," R.K. Wunderlich and H.J. Fecht, <u>Journal of Non-Crystalline Solids</u> , Vol. 156-158, 1993, pp. 421-424. <i>(Nov 22, 96)</i>
WV			"A Combinatorial Approach to Materials Discovery," X.D. Xiant, Xiaodong Sun, Gabriel Briceno, Yulin Lou, Kai-An Wang, Hauyee Chang, William G. Wallace-Freedman, Sung-Wei Chen, and Peter G. Schultz, <u>Science</u> , Vol. 268, June 23, 1995, pp. 1738-1740.
Examiner	Karl W. Johnson		Date Considered 11-25-96

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FEB 11 1964  
GROUP 2100

**SERIAL NO.**  
09/210,485

## Information Disclosure Statement by Applicant

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**APPLICANT**  
Mansky

**FILING DATE**  
Herewith

**GROUP**

## U.S. PATENT DOCUMENTS

[illegible]

## FOREIGN PATENT DOCUMENTS

[illegible]

## OTHER DOCUMENTS

(Including Author, Title, Date, Pertinent Pages, Etc.)

102			"A Capacitance Sensor for On-Line Monitoring of Ultrathin Polymeric Film Growth," Guo-Gang Zhou, Stephen T. Kowel, and M.P. Srinivasan, <u>IEEE Transactions on Components, Hybrids, and Manufacturing Technology</u> , Vol. 11, No. 2, June 1998, pp. 184-190.

**Examiner**

Date Considered

**Examiner:** Initial if citation considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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PATENT AND TRADEMARK OFFICE

**LIST OF PRIOR ART CITED BY APPLICANT**  
**IN AN APPLICATION**  
(Use several sheets if necessary)

Atty. Docket Number  
1012-001

Serial Number:  
09/210,485

Applicant(s): Mansky et al.

Filing Date:  
12/11/98

Group: 2858

**U.S. PATENT DOCUMENTS**

*EXAMINER TRIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	4,950,608	08/21/90	Kishimoto	435	290	
	5,755,942	05/26/98	Zanzucchi et al.	204	454	
	5,788,833	08/04/98	Lewis et al.	205	787	

**FOREIGN PATENT DOCUMENTS**

Document Number	Date	Country	CLASS	SUBCLASS	TRANSLATION YES NO
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**OTHER DOCUMENTS**

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U.S. DEPARTMENT OF COMMERCE  
PATENT AND TRADEMARK OFFICE

Atty. Docket Number  
1012-001 AUG 07 2000

Serial Number:  
09/210,485

**LIST OF PRIOR ART CITED BY APPLICANT**  
**IN AN APPLICATION**  
(Use several sheets if necessary)

Applicant(s): Mansky et al

Filing Date:  
12/11/98

Group: 2857  
2858

**U.S. PATENT DOCUMENTS**

*EXAMINER TRIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
285	5,641,391	06/24/97	Hunter et al.	205	80	
285	5,667,667	09/16/97	Southern	205	687	
285	6,093,302	07/25/00	Montgomery	205	122	

**FOREIGN PATENT DOCUMENTS**

Document Number	Date	Country	CLASS	SUBCLASS	TRANSLATION YES NO
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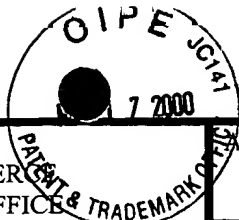
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EXAMINER *Paul W. H. H. H.*

DATE CONSIDERED: 11-25-01

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#12

Form PTO-1449

U.S. DEPARTMENT OF COMMERCE  
PATENT AND TRADEMARK OFFICEAtty. Docket Number  
1012-001

Serial Number:

09/210,485

**LIST OF PRIOR ART CITED BY APPLICANT**  
**IN AN APPLICATION**  
(Use several sheets if necessary)

Applicant(s): Mansky et al.

Filing Date:  
12/11/98

Group:

2858

**U.S. PATENT DOCUMENTS**

*EXAMINER TRIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
<i>je</i>	6,079,873	06/27/2000	Cavicchi et al.	374	10	

**FOREIGN PATENT DOCUMENTS**

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**OTHER DOCUMENTS**

(Including Author, Title, Date, Pertinent Pages, Etc.)


EXAMINER

*Jeffrey W. ...*

DATE CONSIDERED:

11-25-01

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<sup>1</sup> Unique citation designation number. <sup>2</sup> Applicant is to place a check mark here if English language Translation is attached.

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Substitute for form 1449A/PTO  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  <i>(use as many sheets as necessary)</i>				<b>Complete if Known</b>	
				Application Number	09/210,485
				Filing Date	12/11/98
				First Named Inventor	Paul Mansky
				Group Art Unit	2858
				Examiner Name	H. Wachsman
				Attorney Docket Number	1012-001(98-23)
Sheet	1	of	1		

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Examiner Signature	<i>K. H. Williams</i>	Date Considered	11-25-01
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<sup>1</sup> Unique citation designation number. <sup>2</sup> See attached Kinds of U.S. Patent Documents. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

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# INFORMATION DISCLOSURE STATEMENT BY APPLICANT

**Complete if Known**

<b>Application Number</b>	09/210,485
<b>Filing Date</b>	12/11/1998
<b>First Named Inventor</b>	Paul Mansky
<b>Group Art Unit</b>	2858
<b>Examiner Name</b>	H. Wachsman
<b>Attorney Docket Number</b>	1012-001(98-23)

[illegible][illegible]

Date Considered	11-25-01
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<sup>1</sup> Unique citation designation number. <sup>2</sup> See attached Kinds of U.S. Patent Documents. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

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**SERIAL NO.**  
09/210,485

(Use several sheets if necessary)

APR 20 1989  
JCA 483  
PATENT & TRADEMARK OFFICE

**FILING DATE**  
December 11, 1998

**GROUP**

## U.S. PATENT DOCUMENTS

[illegible]

## FOREIGN PATENT DOCUMENTS

[illegible]

## OTHER DOCUMENTS

(Including Author, Title, Date, Pertinent Pages, Etc.)

<p>(Including Author, Title, Date, Pertinent Pages, Etc.)</p>			
<p><i>Dr</i></p>	<p><i>102</i></p>	<p><i>102</i></p>	<p>"Micron Scale Differential Scanning Calorimeter,"  <a href="http://www.cstl.nist.gov/div836/836.04/SensorProj/Microcal.html">http://www.cstl.nist.gov/div836/836.04/SensorProj/Microcal.html</a> <i>page 1-5 (No date)</i></p>
<p><i>102</i></p>	<p><i>102</i></p>	<p><i>102</i></p>	<p>"Sensor Platforms," <a href="http://www.cstl.nist.gov/div836/836.04/SensorProj/SensorPlatforms.html">http://www.cstl.nist.gov/div836/836.04/SensorProj/SensorPlatforms.html</a> <i>(page No date)</i></p>
<p>Examiner <i>H. W. [Signature]</i></p>			<p>Date Considered <i>11-5-01</i></p>

**Examiner:** Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.